LURIYE, A. S.

Technic for the formation of a preternatural anus following extirpation of the rectum in cancer. Vop. onk. 8 no.1:30-32 '62.

(MIRA 15:2)

1. Iz Kostinskoy onkologicheskoy bol'nitsy Mosoblzdravotdela.

(RECTUM_CANCER) (ANUS_SURGERY)

LUR'YE, A. S., doktor med. nauk (Kaliningrad, Moskovskoy obl., Kostino, Shkol'nyy pr., d 5-a, kv. 14).

Anterior approach to the upper part of the thoracic section of the esophagus. Vest. khir. no.2:11-13 62. (MIRA 15:2)

1. Iz Kostinskov oblastnov onkologicheskov bol'nitsy (gl. vrach - Z. A. Bunatyan) Mosoblzdravotdela.

(ESOPHAGUS SURGERY)

LUR'YE, A. S., doktor med. nauk

Cicatricial stenosis of the esophagogastric anastomosis treatment. Khirurgiia no.2:77-81 62. (MIRA 15:2)

1. Iz Kostinskoy oblastnoy onkologicheskoy bol'nitsy (glavnyy vrach Z. A. Bunatyan) Mosoblzdravotdela.

(ESOPHAGUS—SURGERY) (STOMACH—SURGERY)

LURIYE, A. S.

Some difficulties in the formation of esophageal anastomoses. Grud. khir. 4 no.3:48-50 My-Je '62. (MIRA 15:7)

1. Iz Moskovskoy oblastnoy onkologicheskoy bolinitsy (glavnyy vrach P. M. Isakhanov)

(INTESTINES—SURGERY) (ESOPHAGUS—SURGERY) (STOMACH—SURGERY)

LUR'YE, A.S., doktor med.nauk (Kaliningrad, Moskovskoy oblasti, Kostino, Shkol'nyy proyezd, d.5a, kv.14)

Treatment of stases in an antethoracicly displaced stomach.
Klin.khir. no.11:81 N *62. (MIRA 16:2)

1. Moskovskaya oblastnaya onkologicheskaya bol'nitsa. (DIGESTIVE ORGANS—SURGERY)

IUR'TE, A.S., doktor med. nauk

Technique of pancreatic respetion in a transpleural removal
of cardial cancer. Khimurghia 39 no.6:63-65 Je '63.

(MIRA 17:5)

1. Iz Moskovskogo oblastnego onkologicheskogo dispansera
(glavnyy vrach P.H. Isakhanov).

188 77. A.S., dekter med. nack (Fillinfagred, Packawskay oblasmi. f. Shkolinyy prospekt, d. 5-0, kv. 14)

Resection of the panoress is the typispleured remove) of the stomach in cancer. Vest. kbir. 90 pt. 5842-45 Py 43 (18 20 2785)

1. Iz Moskovskogo oblastnogo ockolegicheskogo dispansera iglevnyy vrach - P.M. Isakhanov).

LUR'YE, A.S. (Kaliningrad, 5, Moskovskoy oblasti, Shkol'nyy prospekt, d.5a, kv.7)

Ligature of the thoracic lymphatic duct in surgery on the esophagus. Grud. khir. 5 no.5:74-76 S-0 163. (MIRA 17:8)

1. Iz Moskovskoy oblastnoy onkologicheskoy bolinitsy (glavnyy vrach P.M. Isakhanov).

_LUR!YE, A.S. (Moskovskaya oblast, Kaliningrad, 5, Shkol'nyy prospekt, 5-a, kv.14)

Resection of the upper segment of the stomach in cancer.

Vop. onk. 9 no.9:44-49 '63. (MIRA 17:9)

l. Iz onkologicheskogo dispansera Moskovskoy oblasti (glavnyy
vrach - Isakhanov, P.M.)

LUR'YE, A.S., doktor med. nauk

Abdominoparasacral resections of the rectum. Akt. vop. prokt.
no.2:204-211 *63 (MIRA 18:1)

DRIYE, A.S., doktor med. nauk (haliningrad, Moskovskoy oblasti, Shkol'nyy proyezd, 5-2, kv.14)

Technique for rectal resection. Vest. knir. 92 no.5:115-118 Ny '64.

(MRA 18:1)

1. 12 Meskovskoge oblastnope enkologicheskoge dispansera (glavnyy vrach - P.M. Isakhanov).

LUR'YE, A.S., doktor med. nauk

Pathology and surgery of tumors of the glomus caroticum. Khirurgiia 40 no.12:112-118 D '64. (MIRA 18:3)

1. Kostinskaya oblastnaya onkologicheskaya bol'nitsa (glavnyy vrach P.M. Isakhanov) Moskovskogo otdela zdravookhraneniya.

IUR'YE, A.S., doktor med. nauk

Methodology of the removal of cancer of the thoracic part of
the esophagus. Khirurgiia 41 no.4:47-52 Ap '65.

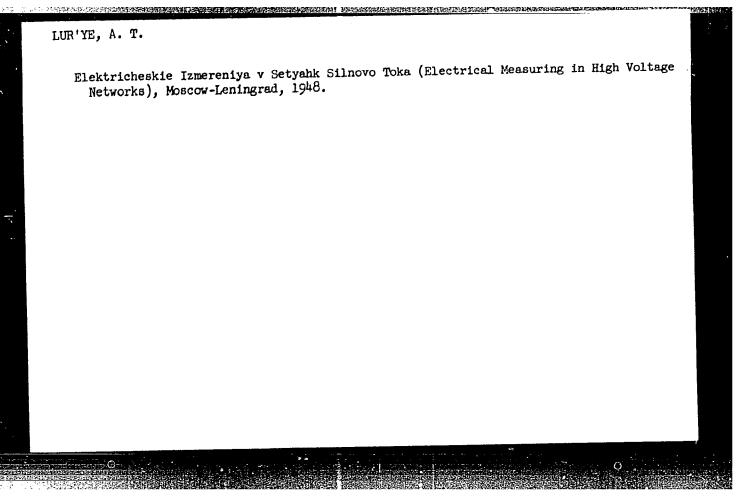
(MIRA 18:5)

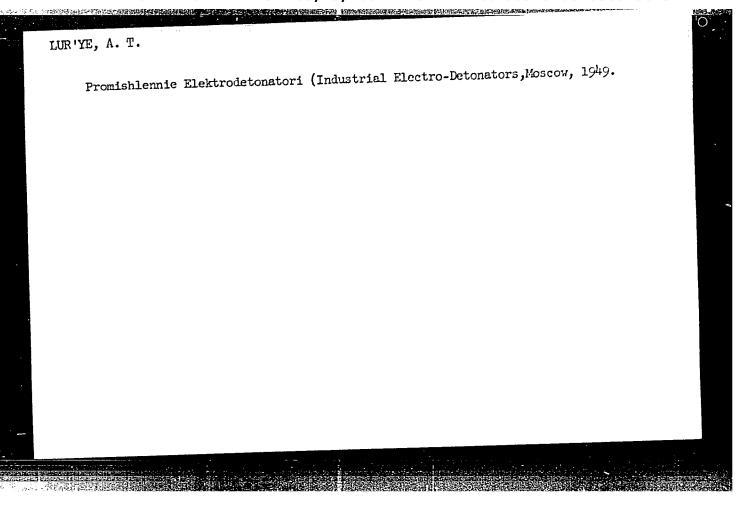
1. Moskovskiy oblastnoy onkologicheskiy dispanser.

IUR'YE, A.S.

Treatment of cancer of the thoracic section of the esophagus. Vop. onk. 11 no.3:8-13 '65. (MIRA 18:6)

1. Iz Moskovskogo oblastnogo onkologicheskogo disparsera (glavnyy vrach - P.M. Iskhanov).





USSR/Mining Oct 48

Blasting

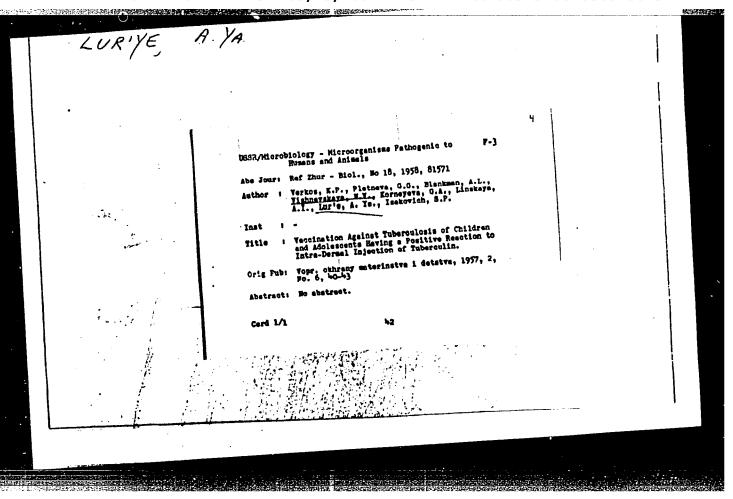
"New Method for Making Computations on Iarge-Scale Electrically Detonated Blasting Circuits,"
A. T. Lur'ye, Mil Transp Acad imeni Maganovich,
ht pp

"Gor Zhur" No 10

Deduces and discusses basic equation for electric blasting circuit. Gives graphic method for solving equations. Illustrates method by theoretical example.

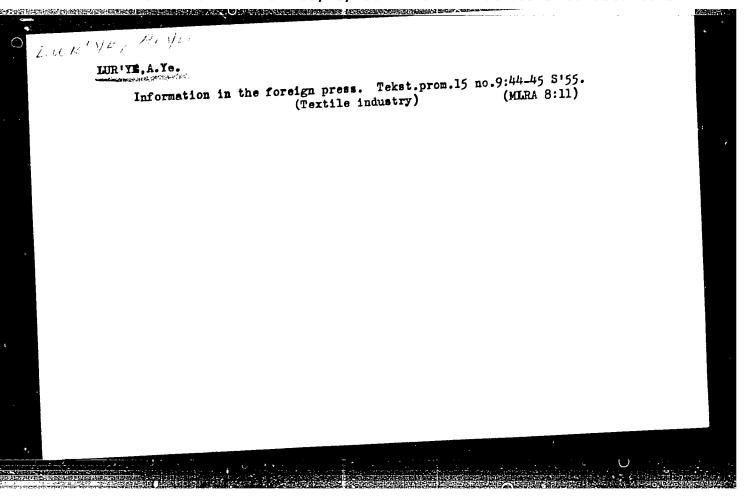
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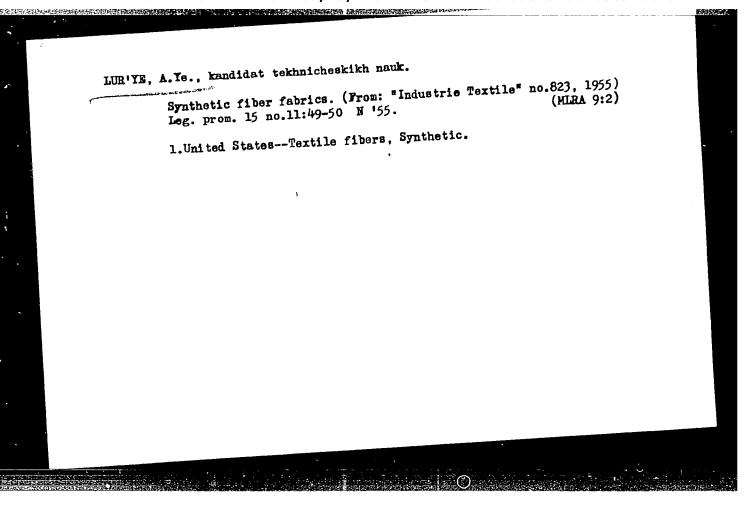
"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030910019-7



Prochnost' Elementov Parcvykh Turbin (Stability of the Elements of Steam Turbines) Shornik Statey. Pod Redaktsiyey I. I. Kirillova i A. Ye. Lur'ye. Moskva. Mashgiz. 1951.

242 p. Illus., Diagrs., Tables.
Bibliographical Footnotes.





LUR'YE. A.Ye.

Part of the Alexandrovsk mill in the development of the Russian textile and machinery industry in the first half of the 19th century. Trudy Inst.ist.est. 1 tekh. 13:79-101 '56. (MIRA 10:1) (Textile industry—History) (Machinery industry—History)

BUTOVICH. Vasiliy Mikhaylovich, inzh.; VILLEMSON, Khenrik
Iokhanesovich, inzh.; KORZINKIN, Nikolay Sergeyevich, inzh.;

"USHNIR, Saveliy Abramovich, kand. tekhn. nauk; LURTE,
Aleksandr Yevseyevich, kand. tekhn. nauk; POSTNIKOVA, K.P.,
prepodavatel'nitsa; KHOTIMSKIY, P.M., red.; FRUDNO, K.F., tekhn.
red.

[France-Russian textile dictionary] Frantsuzsko-russkii tekstil'nyi slovar'. [By] V.M. Butovich i dr. sostaviteli. Moskva, Fizmatgiz, 1962. 462 p.

1. Moskovskiy tekstil'nyy institut (for Postnikova).

(Textile industry--Dictionaries)

LURVE, A. 2.

37671 instrument dlya biopsiislizistoy obolochki gaymorovoy pazukhi. vestmik otorinolaringologii.
1949, No. 6, s. 57-58

So. Letopis' Zhurnal'nykh Statey, Vol. 47, 1949

IUR'YF, A.Z.

Histological data on structural modifications of the mucosa of the maxillary sinus following surgery of the cavity. Vest. otorin. 16 no.3:52-54 ky-Je '54. (MERA 7:7)

1. Iz kliniki bolesney ukha, gorla i nosa (sav. prof. B.N.Lebedevskiy) Molotovekogo meditsinekogo instituta.

(MAXILLARY SINUS, surgery,

*postop. changes of mucosa)

(MICOUS MEMBRAHES.

*maxillary sinus, postop. changes)

LEBEDEVSKIY, B.N., professor, zasluzhennyy deyatel nauki; LYR'YE, A.Z., LUR'YE, A.Z. kandidat meditsinskikh nauk Preservation of the mucosa in radical surgery of the maxillary sinus. Vest. oto-rin. 16 no.4:54-57 Jl-Ag 154. 1. Iz kliniki bolezney ukha, gorla i nosa Molotovskogo meditsinskogo instituta. (SINUSITIS, *maxillary, surg., conservation of mucosa)

Honthly List of Russian Accessions, Library of Congress, May 1952. UNCLASSIFIED.

LURY K. K.A.

6-58-3-5/16

AUTHORS:

Gertsenov, K. K., Candidate of Technical

Sciences, Lur'ye, B. A., Engineer

TITLE:

An Evaluation of the Correction of an Aerophotographic Film Into a Plane in Aerial Photographs of Mountainous Regions (Otsenka vyravnivaniya aeroplenki v ploskost' pri aerofotos". yemke gornykh rayonov)

Geodeziya i Kartografiya, 1958, Nr 3, pp. 23-31 (USSR)

PERIODICAL: ABSTRACT:

The correction of an aerophotographic film into the plane is in aerial photographs at present mainly evaluated according to the method of the graphical interpolation of the transverse parallaxes. In mountainous regions the values reduced to a plane for all points of reduction are interpolated. In the evaluation of the distortions of aerial photograph negatives it was found in the Moscow Geodetical Service that in some cases the divergence, exceeding the permissible measure, between q_{measured} and q_{calculated} is not only caused by the distortions of the aerial photograph negatives, but by the errors of measurement of the transverse parallax. One of the sources of these errors is the inexact orientation of the aerial photographs to the instrument. The calculation of this

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CIA-RDP86-00513R001030910019-7" APPROVED FOR RELEASE: 03/13/2001

An Evaluation of the Correction of an Aerophotographic Film 6-58-3-5/16 Into a Plane in Aerial Photographs of Mountainous Regions

error is given here and it is shown that it is necessary to employ more exact method in the orientation of aerial photographs. Moreover the errors of the transverse-parallax--measurements proper exert an influence upon the results in the evaluation of the corrections of aerophotographic films for the plane. Therefore the control of measurement and the control of the calculations are very important. It is expedient when two persons survey and when the average of results of the two measurements is used for further computations. In the Moscow Air Geodetical Service a method for the evaluation of the correction into the plane of aerial photographs of mountainous regions was worker out taking into account the influence of the errors of orientation and instrument measurement. This method according to the graphic method of interpolation is shortly described here. The determination of the distortions of the negatives of aerial photographs was carried out by means of the stereoprojector C P-2 by Romanovskiy. 1-1,5 hours are necessary on the average for one pair of aerial photographs. There are 3 which are Soviet. figures, 4 tables, and 2 references, Library of Congress

AVAILABLE: Card 2/2

1. Aerial photography 2. Topography

L19696-63 WM/JW/MMY/JWD/H ACCESSION NR: AP3006615 AUTHOR: Svetlov, B. S.: Lur'ye, B. A. TITLE: Characteristics of the thernal decomposition of dinitroxy— thernal decomposition of dinitroxy— TOPIC TAGS: nitro ester, explosive, thermal decomposition, liquid explosive, chemical stability, stability explosive, chemical stability, stability explosive, decomposition, storage stability othylnitraming, decomposition, storage of water and nitric activilnitraming, decomposition, storage of water and nitric activilnitraming of the presence and absence of feet of reaction (DINA) was studied in the presence and absence office to character— (DINA) was studied in the presence and the decomposition character— (DINA) was studied in the presence and the decomposition character— (DINA) was studied in the presence and sooth the office to of the presence and the decomposition character— (DINA) was studied in the presence and the decomposition character— (DINA) was studied in the presence and the decomposition character— (DINA) was studied in the presence and the decomposition character— (DINA) was studied in the presence and the decomposition character— (DINA) was studied in the presence and the decomposition character— (DINA) was studied in the presence and the decomposition character— (DINA) was studied in the presence and the decomposition character— (DINA) was studied in the presence and the decomposition character— (DINA) was studied in the presence and the decomposition character— (DINA) was studied in the presence and the decomposition character— (DINA) was studied in the presence and the decomposition character— (DINA) was studied in the presence and the decomposition character— (DINA) was studied in the presence and the decomposition character— (DINA) was studied in the presence and the decomposition character— (DINA) was studied in the presence and the decomposition character— (DINA) was studied in the presence and the decomposition character— (DINA) was studied in the presence and the decomposition	
L10606-63 WW/JW/MAY/JWD/H ACCESSION NR: AF3006615 AUTHOR: Svetlov, B. S.; Lur'ye, B. A. AUTHOR: Svetlov, B. S.; Lur'ye, B. A. TITLE: Characteristics of the thermal decomposition of dinitroxy- tethylnitramine of the thermal decomposition, liquid SOURCE: Zh. Sizicheskoy khimil, v. 37, no. 9, 1963, 1979-1984 TOPIC TAGS: nitro ester, explosive, thermal decomposition, liquid explosive, chemical stability, stability, nitric acid, dinitroxy- explosive, chemical stability, storage stability and nitric acid, dinitroxy- ABSTRACT: The thermal decomposition of dinitroxy ethylnitramine othylnitramina, decided in the presence and absence of water and nitric (DINA) was studied in the presence and the decomposition character. (DINA) was studied in order to determine both the effect of character. (DINA) was studied in order to determine both the were conducted in acid at 60-170c in order to rate and the decomposition in the products on the decomposition rate and the were conducted in acid at 60-170c in order to varying degrees with DINA. The initial sticks at low temperatures. The pressure increase was measured as pressure bomb pressure was 1 mm llg. The pressure increase	The state of the s
L10606-63 WW/JW/MAY/JWD/H ACCESSION NR: AF3006615 AUTHOR: Svetlov, B. S.; Lur'ye, B. A. AUTHOR: Svetlov, B. S.; Lur'ye, B. A. TITLE: Characteristics of the thermal decomposition of dinitroxy— TITLE: Characteristics of the thermal decomposition, 11quid source: Zh. Sizicheskoy khimit, v. 37, no. 9, 1963, 1979-1984 TOPIC TAGS: nitro ester, explosive, thermal decomposition, 11quid explosive, chemical stability, stability, nitric acid, dinitroxy— explosive, chemical stability, storage stability acid, dinitroxy— ABSTRACT: The thermal decomposition of dinitroxy ethylnitramine of thylnitramina, decomposition of determine both the effect of reaction (DINA) was studied in the presence and the decomposition character— (DINA) was studied in order to determine both the effect of reaction acid at 60—170c in order to determine both the were conducted in acid at 60—170c in order to rate and the two were conducted in acid at 60—170c in order to determine both Juna. The initial acid at for the products on the decomposition rate and the two were conducted in the products on the decomposition acid at 60—170c in order to determine both Juna. The initial acid at 60—170c in order to determine both Juna. The initial acid at 60—170c in order to determine with DINA. The initial acid at 60—170c in order to determine both both products on the products on the products on the products of the products on the products of the product of the products of the product of the products of the product of the product of t	
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AUTHOR: Svetlov, B. S.; Lur'ye, B. A. AUTHOR: Svetlov, B. S.; Lur'ye, B. A. TITLE: Characteristics of the thermal decomposition of dinitroxy- ethylnitramine chylnitramine stability, stability, nitric acid, dinitroxy- TOPIC TAGS: nitro ester, explosive, thermal decomposition, liquid explosive, chemical stability, stability nitric acid, dinitroxy- explosive, chemical stability, stability explosive, chemical stability, storage stability explosive, chemical stability exp	EPR/EPF(C)/ LIII-
AUTHOR: Svetlov, B. S.; Lur'ye, B. A. AUTHOR: Svetlov, B. S.; Lur'ye, B. A. TITLE: Characteristics of the thermal decomposition of dinitroxy- cthylnitramine SOURCE: Zh. fizicheskoy khimii, v. 37, no. 9, 1963, 1979-1984 TOPIC TAGS: nitro ester, explosive, thermal decomposition, liquid explosive, chemical stability, stability explosive, chemical stability, storage stability explosive, chemical stability, storage stability ABSTRACT: The thermal decomposition of dinitroxyethylnitramine (DINA) was studied in the presence and absence of water and nitric (DINA) was studied in order to determine both the effect of character- acid at 60-170c in order to determine were conducted in a lacid at 60-170c in order to determine were conducted in a roducts on the decomposition rate and the decomposition in the initial spread at low temperatures. The experiments were conducted in a lacid at low filled to varying degrees with DINA. The pressure bomb filled to varying degrees with DINA. The pressure increase was measured as bomb pressure bomb filled to varying the pressure increase was measured bomb pressure bomb pressure was 1 mm llg.	(a) (b)
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	pressure was 1 min
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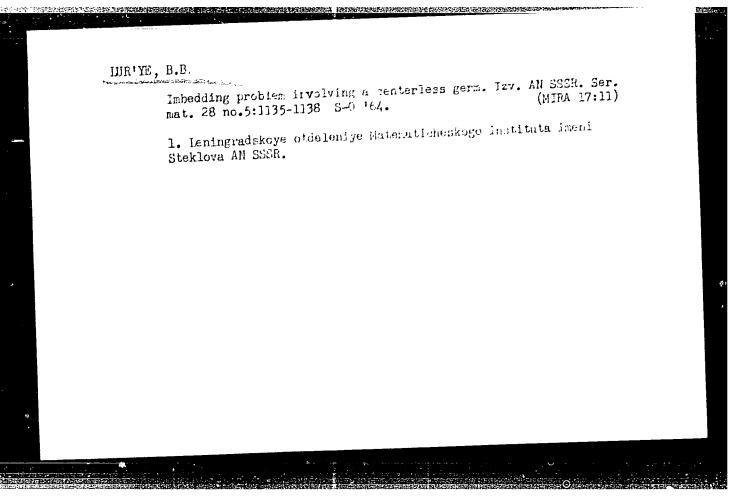
L 19696-63

ACCESSION NR: AP3006615

a function of time, and the concentration of NO₂ in the decomposi tion products was determined colorimetrically. Some results are shown in Figs. 1-4 of the Enclosure. The following conclusions were drawn: 1) Thermal decomposition of DINA can take place by two different mechanisms: one involves spontaneous decomposition and resembles the mechanism observed with other nitroesters; the other takes place at low temperatures, involves hydrolysis accompanied by oxidation, and is characterized by strong self-accelera-2) In contrast to nitroglycerine, DINA exhibits a tendency to self-inhibition. 3) At low temperatures the decomposition rate of DINA after accumulation of decomposition products may be more than 100 times, and in the presence of water 1000 times, the initial decomposition rate. 4) The chemical stability of DINA is basically determined by the presence of water, which may induce self-accelerating hydrolysis, and by nitric acid, which it may contain as a technical impurity. Orig. art. has: 7 figures.

ASSOCIATION: Moskovskiy khimiko-tekhnologicheskiy institut im. D. M. Mendeleyeva (Moscow Institute of Chemical Technology)

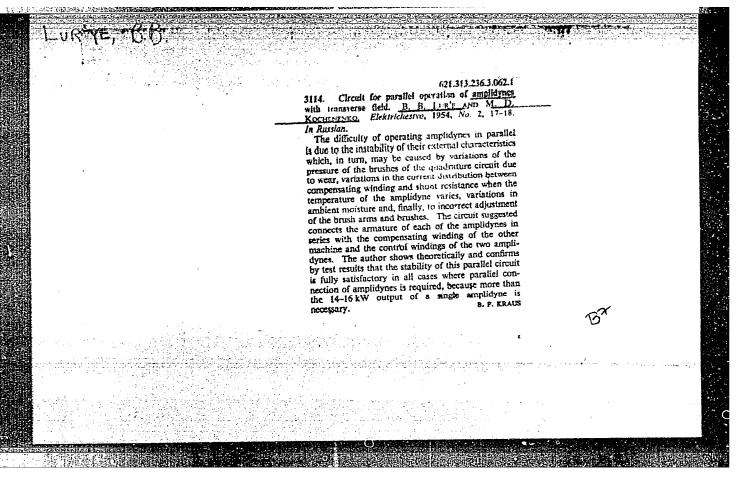
Card 2/12



LUR! YE, B. B.

"Leonard System With the Generator Armature Voltage Introduced Into Its Exciting Winding."
Thesis for degree of Cand. Technical Sci. Sub 21, Nov. 49, All-Union Correspondence
Polytechnical Inst.

Summary 82, 18 Dec. 52, <u>Dissertations Presented for Degrees in Science and Engineering in Moscow in 1949</u>. From <u>Vechernyaya Moskva</u>, Jan-Dec 1949.



LURYE, B.B.

MUZALEVSKIY, O.G. and LUR'YE, B.B., cand. of tech.sc. at the PA-2397 AUTHOR:

Central Scientific Research Institute of Iron Production

(TeNIIChM).

Investigation of Performance of the Light Merchant Mill's Rolling TITLE/

Rate Regulator. (Issledovanyye raboty regulyatora tempa prokatki

melkosortnogo stana, Russian).

Stal', 1957, Vol 17, Nr 1, pp 135 - 140 (U.S.S.R.) PERIODICAL:

Reviewed: 5 / 1957 Received: 5 / 1957

The analysis carried out showed that the automation system for ABSTRACT:

the rolling regulator can not warrant the following: 1) Greater constancy of the time intervals between the rolling processes in the first roll stand than in the case of hand drive. 2) The

constancy of the times between the rolling processes during tapping all through the train, which is necessary for smooth working. In order to improve the operation of the regulator it must first

of all be avoided that 2 - 3 billets pass at the same time from

the furnace to the rollsr train. For this purpose the use of roller trains with tapered rollers is suggested. Stability of the

starting point can be attained by the construction of an automatically controlled mechanic support. As the centrifugal action

of the ingots can be observed mainly in the first and second roll stand it serves the purpose of building an additional rate

regulator before the fifth roll stand, for which purpose the

card 1/2

PA - 2397

Investigation of Performance of the Light Merchant Mill's Rolling Rate Regulator.

roller train before the fifth roll stand had to be devided into two sections. The controlling scheme for the roller train and the special characteristics of the operation of the rate regulator are described. (9 illustrations).

ASSOCIATION: Scientific Research Institute for Iron Production. (TsNIIChM)

PRESENTED BY:

SUBMITTED:

AVAILABLE:

Library of Congress.

Card 2/2

P.R.

PHASE I BOOK EXPLOITATION

80V/1869

Tsentral nyy nauchno-issledovatel skiy institut chernoy metallurgii 8(5)

upravleniyem (Electric Drive of Reversing Rolling Wills With Dynamoelectric Elektroprivod reversivnykh prokatnykh stanov s electromashinnym Control) Moscov, Metallurgizdat, 1958. 257 p. (Beries: Its: Shornik trudov, vyp. 14) Emata slip inserted. 3,800 copies printed.

Additional Sponsoring Agency: Institut proizvodstva stali.

Ed.: N.P. Kunitskiy; Ed. of Publishing House: A.A. Vagin; Tech. Ed.:

This book is intended for scientific workers, process engineers, setup men, and designers, whose work is connected with electric drives of rolling mills. It may also be useful for students in advanced courses at polytechnical and power institutes who are specializing in the field of PURPOSE:

COVERAGE: The book deals with theoretical and experimental research being done on electric drives for reversing rolling mills. Optimum regimes for motors, the control of tension in rolling very thin band, control of the thermal load Card 1/4

Electric Drive of Reversing (Cont.)

sov/1869

of d-c rolling mill motors, and the stability of electronic time relay are discussed. Recommendations are made for the selection and determination of electric drive parameters of reversing rolling mills. The following personalities, all engineers, are mentioned: F.F. Olifer, B.Z. Zaytsev, v.L. Kalyazhnov, V.A. Kovtunovich, Sh.N. Kupershmit, and M.D. Kochenenko. There are 10 Soviet references.

TABLE OF CONTENTS:

3

Preface

Makeyev, I.F. [Candidate of Technical Sciences].
Tension Control as the Function of Power in Rolling Band
on a Cluster Mill

5

a Cluster Mill.

The Problem of accuracy in maintaining the uniformity of tension in the Problem of accuracy in maintaining the uniformity of tension in winding a band on the drum of a coiler at constant speed is discussed, winding a band on the drum of a coiler at constant speed is discussed, winding a band on the drum of a coiler at constant speed of as well as the effect of single factors, such as tension, speed of as well as the effect of single factors, on the accuracy of tension control. rolling, power in idling, etc., on the accuracy of tension control.

Kunitskiy, N.P. [Candidate of Technical Sciences]. Optimum Regimes for Acceleration of Motors Driving Reversing Rolling Mechanisms at Constant Field

27

Card 2/4

Electric Drive of Reversing (Cont.)

sov/1869

The author states that there is certain optimum value of additional resistance in the field circuit of the exciter, at which time motor acceleration is at a minimum, and there is no need for a large e.m.f. for an amplidyne. He also discusses the problem of obtaining an optimum current for motors driving reversing rolling mechanisms by selecting the necessary e.m.f. curve of the amplidyne, particularly its minimum value.

Kalinskiy, D.N., [Engineer]. Multiple-winding Exciter of a Generator

The use of a multiple-winding exciter for a self-excited generator
is duscussed, and the expediency in using parallel self-excitation is shown.

Kunitskiy, N.P. [Candidate of Technical Sciences]. Optimum Regimes of a Motor Driving a Reversing Rolling Mill at Speeds Above Normal With Three-stage Dynamoelectric Control

The theory design, method, and adjustment of parametric three-stage dynamoelectric control of the motor driving a reversing rolling mill at speeds above normal are discussed.

Card 3/4

Electric Drive of Reversing (Cont.)

sov/1869

Kunitskiy, N.P. [Candidate of Technical Sciences]. Optimum Regime for Acceleration of the Motor Driving a Reversing Rolling Mill at Speeds Above Normal With Two-stage Dynamoelectric Control

The theory, design, method, and adjustment of two-stage dynamoelectric control of the motor driving a reversing rolling mill at speeds above normal are discussed. This system has been used for driving rolling mills put into operation during the last two or three years.

Lur'ye, B.B. [Candidate of Technical Sciences]. Stabilization of Electronic 233 Time-relay Performance

A method of improving the stebility of an electronic time-relay for use in circuits for the automation of processes in the metallurgical industry is discussed.

Zhilko, E.I. [Engineer]. Use of Logic Circuits for Controlling Manufacturing Processes

246

This approach, claimed by the author to be new, increases the possibility of automatic control of processes which were formerly considered inaccessible for automation because of their lack of mathematical interpretation.

AVAILABLE: Library of Congress

GO/gmp 7-28-59

Card 4/4

86126

9,2140 (1088,1143,1325)

S/112/59/000/012/058/097 A052/A001

Translation from: Referativnyy zhurnal, Elektrotekhnika, 1959, No. 12, p. 159, # 25011

AUTHOR:

Lur'ye, B.B.

TITLE:

Stabilization of Electronic Time Relay Operation

PERIODICAL:

Sb. tr. Tsentr. n.-i. in-t chernoy metallurgii, 1958, No. 14,

pp. 233-245

TEXT: A method is proposed for stabilization of operation of electronic time relays assembled on tetrodes and pentodes. At a proportional changing of the negative control-grid potential and the supply voltage, the anode current of the tube maintains a constant value corresponding to the relay pull-in current; the delay of the electronic time relay does not depend within broad limits on the change of supply voltage. Since the anode current of the tube is in a considerable degree determined by the screen grid voltage, it is suggested to connect the screen grid to the gas-discharging voltage stabilizer. Characteristics and experimental data of various types of electronic time relay are given. An electronic

Card 1/2

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86126

Stabilization of Electronic Time Relay Operation

s/112/59/000/012/058/097

relay circuit with the screen grid voltage stabilization has secured a change of delay by 1% at supply voltage fluctuations from 175 to 260 volts. There are 14

Translator's note: This is the full translation of the original Russian abstract.

UK

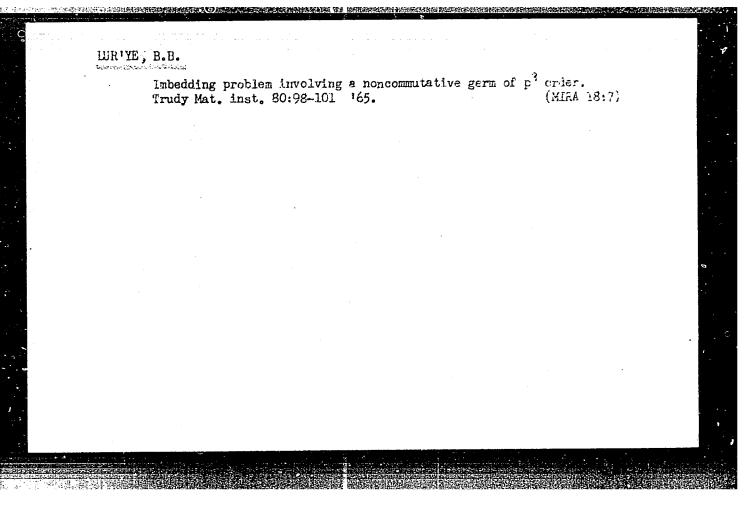
Card 2/2

50TSENKO, V-Y-, prof.; LURIYE, B.H., dousent; SERSHRYANSKAY4, N.Z., inch., PEMORCW, A.E., inch.

Static converter with automatic cutput voltage regulation.

Trudy MIIT no.205cl6.26 165.

(MIRA 18:9)



BASCVA, B.K., dotsent; IAM TYE, B.B., dotsent

Use of static phase converters in track work in railrage transportation. Trudy MHT no.205:104-115 165. (MEA 18:9)

VINOGRADOV, I.A.; LUR'YE, B.D., redsktor; TISHKYSKIY, I.I., tekhnicheskiy redsktor

[Let us increase productivity in swine breeding] Povyshaem produktivnost' svinovodstva, [Moskva, Izd-vo Ministerstva sel'skogo khoziaistva SSER, 1955] folder (5 p.)

1. Zaveduyushchiy svinofermoy kolkhoza "Trudovaya armiya," Tutayevekogo rayona, Yaroslavskoy oblasti (for Vinogradov) (Swine breeding)

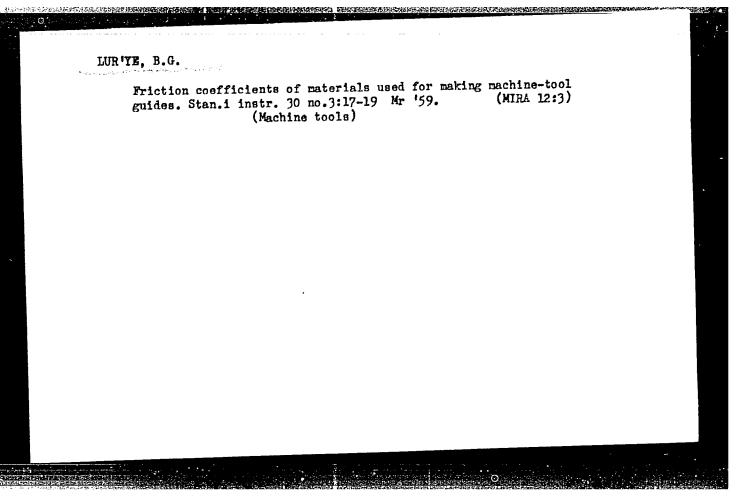
KOLESNIKOV, Venedikt Andreyevich, prof., doktor sel'skokhoz.nauk; ZHURIN,
Aleksey Borisovich, agronom; KAPTSINZL', Mikhail Abramovich,
agronom; KAPTSINKL', Anna Petrovna, agronom; KOVAL', Alla Alekseyevna, kand.sel'skokhoz.nauk; KORCHAGIN, Vladimir Nikoleyevich,
entomolog; ZUBAREV, N.A.; LUR'YE, B.D., red.; RAZGULYAYEVA, N.G.,
tekhn.red.

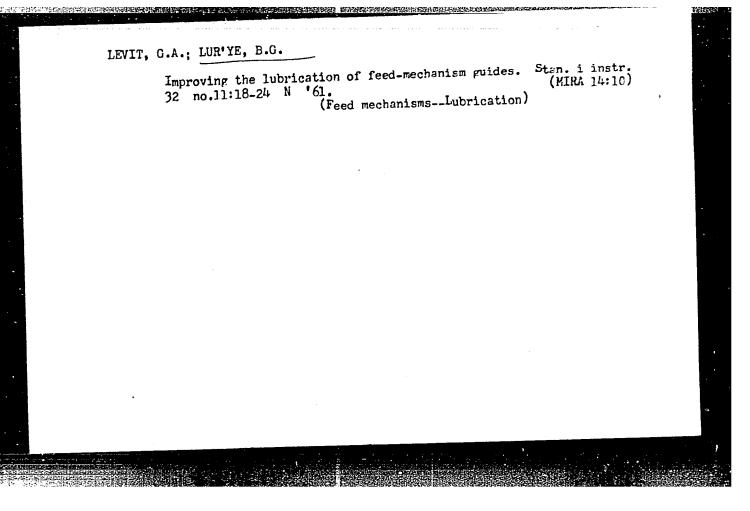
[Amateur fruitgrower's reference manual] Kalendar'-spravochnik sadovoda-liubitelia. Moskva, Izd-vo M-vs sel'.khoz.SSSR, 1959. 494 p. (MIRA 13:4)

MAKARENKO, G.A.; GRIGOR'YEVA, V.G.; SHEYNINA, T.I., red.; LUR'YE, B.I., red.

[Book to aid the agricultural specialist engaged in production; index of literature for 1963] Knigu - v pomoshch' spetsialistu sel'skogo khoziaistva na proizvods've; ukazatel' literatury za 1963 god. Moskva, Kolos, 1964. lll p. (MIRA 18:3)

1. Moscow. TSentral'naya nauchnaya sel'skokhozyaystvennaya biblioteka.



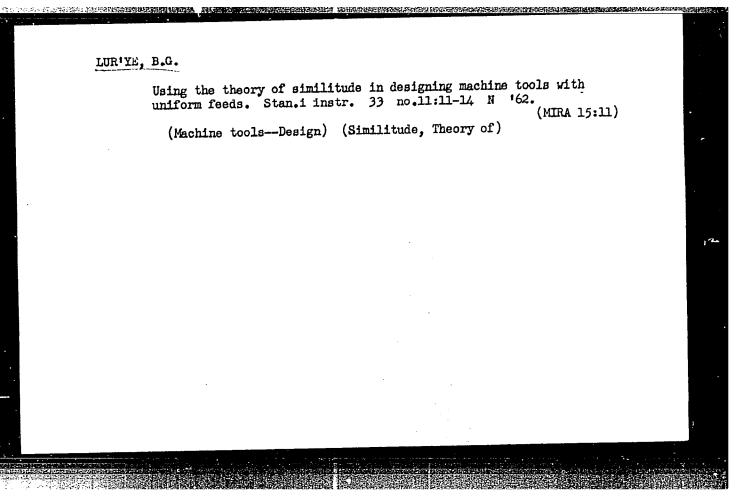


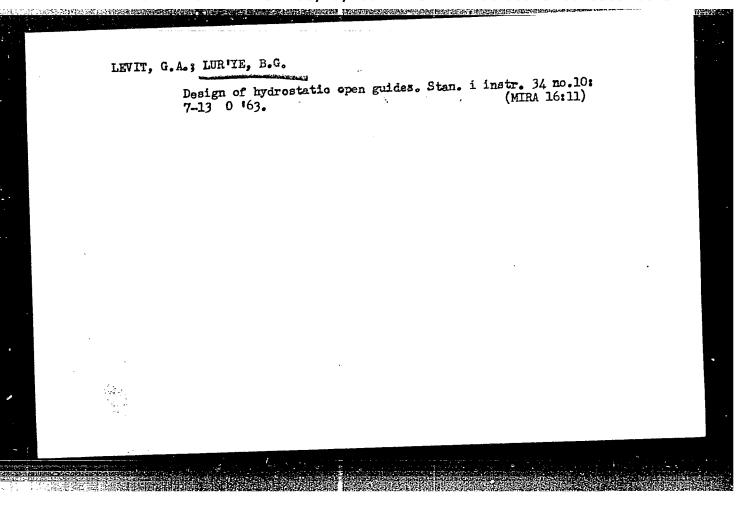
LEVIT, G.A.; LUR!YE, B.G.

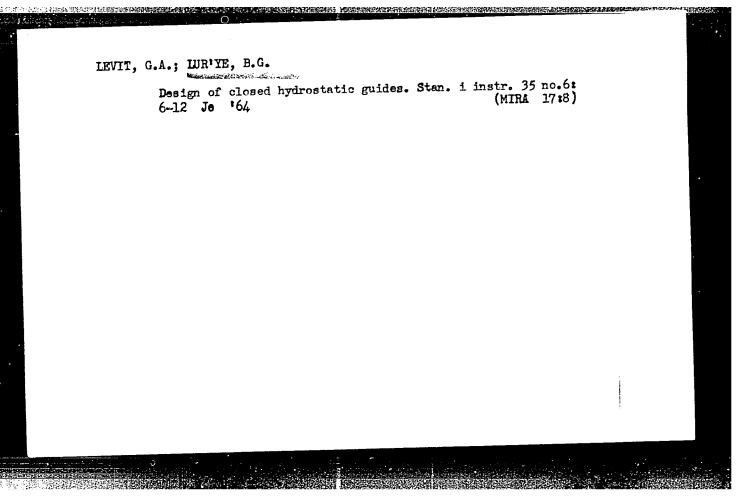
Calculating feed-mechanism guides according to friction characteristics. Stan.i instr. 33 no.1:12-15 Ja '62.

(Feed mechanisms)

(Feed mechanisms)

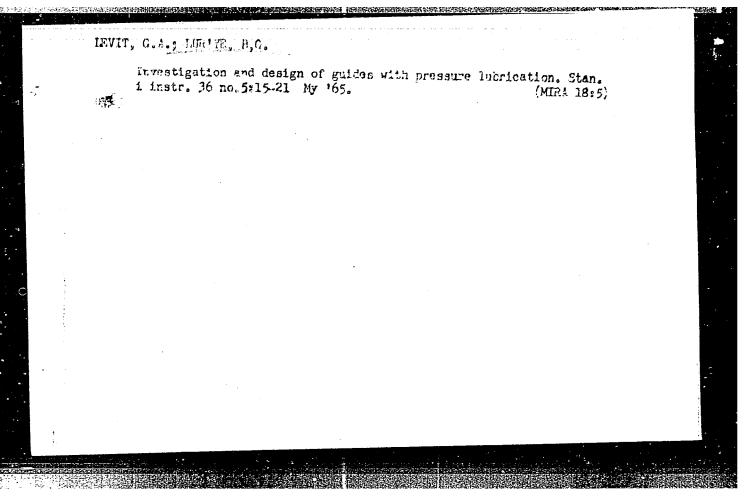






<u>L 52120-65</u> EWP(k)/EWT(d)/EWP(h)/EWA(d) CCESSION NR: AP5015362	UR/0286/65/000/009/0112/0112 621.836.2 /8
AUTHOR: Levit, G. A.; Luriye, B. G.	
TITLE: Hydrostatic guides. Class 49, I SOURCE: Byulleten! izobreteniy i tovar	nykh znakov, no.
TOPIC TAGS: metalworking machine, hydr	ostatic pressure,
ABSTRACT: This Author's Certificate in machine tools with rectangular working nected with a hydrostatic system for for may be used for rectilinear displacement the vertical and horizontal planes. The standard elements for machine tools of standard elements for machine support	surfaces and oil containers which are con- seding lubricants under pressure. The guides ent of a movable unit with power locking in the guides are designed to be made up from various types and sizes. The devices are swith built-in choke valves. Each support the basic elements of the hydrostatic system- valves and channels for lubricant feed.

1	L 52120-65 ACCESSION NR: AP5015362			1	
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LUR'YE, B. PA 175T99

USSR/Physics - Diffusion

11 Aug 50

"Experiments on Determination of Diffusion Coefficient of Sodium Ions in Sodium Chloride," A. Murin, B. Lur'ye

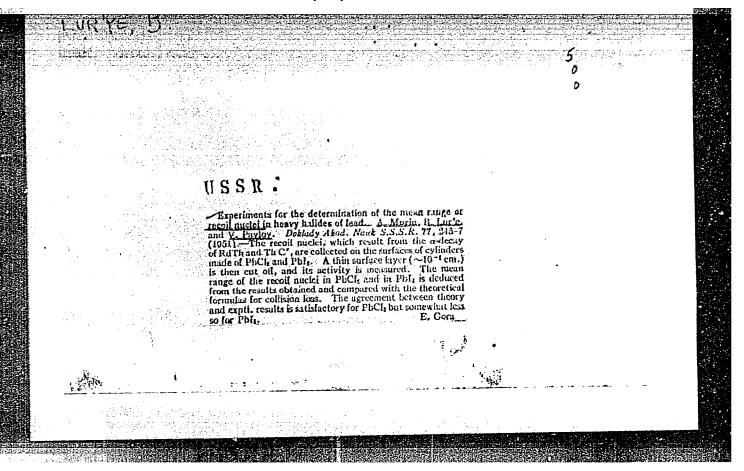
"Dok Ak Nauk SSSR" Vol LXXIII, No 5, pp 933-935

(Ration Inst. in Khlopin AS USSR)

Describes attempts to work out exptl procedure
in detn of magnitude of subject coeff of diffusion of Na+ ions in solid NaCl. Compares exptl
and theoretical values for various temp. Radioactive sodium (Na²⁴, T = 14.8 hr) employed.

Submitted 16 Jun 50 by Acad P. I. Lukirskiy.

175T99



USSR/Physics

Card 1/1 Pub. 22 - 15/47

Authors : Murin, A. and Lur'e, B.

Title : Experimental study of the diffusion of silver and lead ions in silver

bromide

Periodical : Dok. AN SSSR 99/1, 53-55, Nov 1, 1954

Abstract : Experimental studies intended to determine the coefficients of diffusion of

silver bromide are described. It resulted in construction of equations, the solution of which is done graphically (for silver diffusion). Ten re-

ferences: 4-USSR (1928-1952). Graphs.

Institutions: Radium Institute im. V. G. Khlopin of the Acad. of Scs. of the USSR and

Leningrad State University im. A. A. Zhdanov

Presented by : Academician P. I. Lukirskiy, July 1, 1954

LUR'YE, B. G.

USSR/Physics

Gard 1/1 Pub. 22 - 11/45

: Murin, A. N.; Kazakova, G. N.; and Lurie, B. G.

Title

: Experiments with diffusion of bromine in solid argentum-bromide for purposes of studying

Periodical : Dok. AN SSSR 99/4, 529-531, Dec 1, 1954

Abstract

: Experiments with bromine diffusion in solid argentum-bromide are described. Bromine diffusion of pure bromine as well as brominated samples were studied with the help of a radioactive indicator Br82. Two methods - the contact and the adsorption methods - were used. The first one was used in the cases of pure bromine samples, the second, in the cases of brominated samples. Diffusion coefficients obtained by both methods are considered quite satisfactory and can be expressed as follows: $D_{\rm Br}=0.50e-24000~{\rm RT}~{\rm cm}^2/{\rm sc}$. Coefficients of electric conductivity of bromine and brominated samples were also determined. Ten references 7-USSR (1937-1954). Diagrams.

Institution: Leningrad State University im. A. A. Zhdanov, Radium Inst. in V. G. Klopin,

Presented by: Academician P. I. Lukirskiy, June 9, 1954

AS USSR

LUR'YE, B. G. — "On Electrical Conductivity and Diffusion in the Halides of Silver and the Alkali Metals." Acad Sci USSR. Radium Inst imeni V. G. Khlopin. Leningrad, 1955. (Dissertation for the Degree of Candidate in

Physicomathematical Sciences)

SOURCE Knizhnaya Letopis', No 6 1956

CIA-RDP86-00513R001030910019-7 "APPROVED FOR RELEASE: 03/13/2001

LURIYE, U.G USSR/Physics - Diffusion of ions

FD-3148

Card 1/1

Pub. 153 - 4/26

Author

: Banasevich, S. N.; Lur'ye, B. G.; Murin, A. N.

Title

: Determining the coefficient of diffusion of silver ions in silver

bromide by the method of taking off of thin layers

Periodical: Zhur. tekh. fiz., 25, No 13 (November), 1955, 2277-2279

Abstract

The coefficients of self-diffusion of silver ions in compressed tablets of silver bromide were measured by the absorption method earlier (A. N. Murin, Yu. Taush, DAN SSSR, 80, No 4, 1951; A. N. Murin, B. G. Lur'ye, DAN SSSR, 99, No 1, 1954) and were found to deviate from the valued computed according to the Einstein equation DakTo/Ne2. To solve conclusively the problem of this deviation the authors conducted experiments to measure the concentration of tracer atoms c at various distances from the initial boundary x. They present the results, from which they conclude that the mechanism of self-diffusion and of ion conductivity in the case of silver bromide is one and the same, at least in the high-temperature structural-

nonsensitive region. Two references.

Institution:

Submitted: : June 14, 1955

BARANOVSKIY, V.I.; LURIYE, B.G.; MURIH, A.N.

Electric conductivity and self-diffusion coefficients of cations in silver iedide. Dokl.AN SSSR 105 no.6:1188-1191 D 55.(MLRA 9:4)

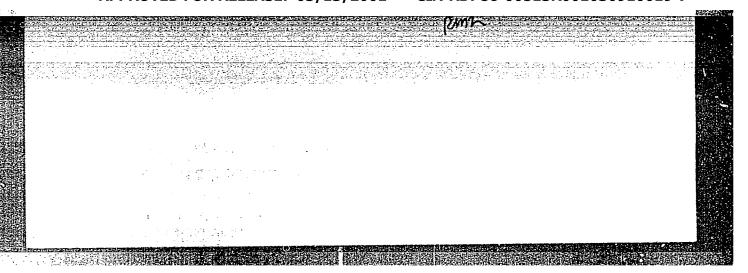
1. Leningradskiy gesudarstvennyy universitet imeni A.A. Zhdaneva. Predstavlene akademikem A.F. Leffe.
(Silver iedide--Electric properties) (Cations)

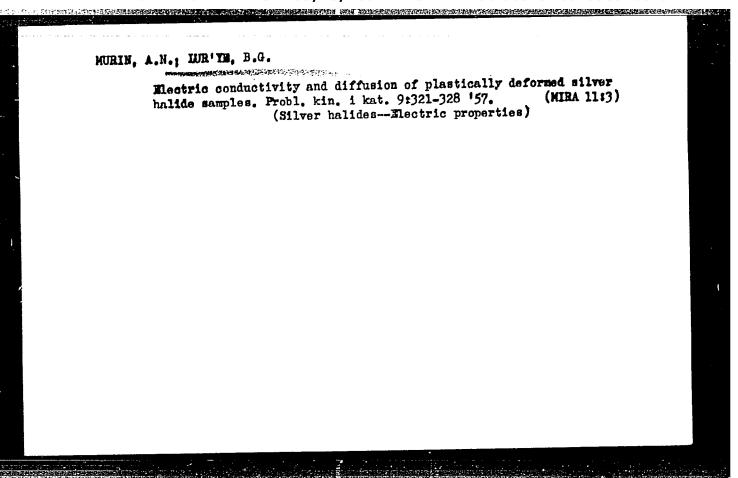
STARIK, I.Ye.; RATNER, A.P. [deceased]; GROSHKOV, G.V.; MURIN, A.N.;
STARIK, A.S.; GREEESHHIKOVA, V.I.; KLOKMAN, V.P.; MEFEDOV, V.D.;
LURYE, B.G.; ISHIMA, V.A.; SHRIMOV, L.A.; KEVIMOVA, Y.E.I.;
TOROPOVA, M.A.; SIMONYAK, Z.M.; FREMKLIKH, M.S.; SHCHEMELEVA, Ye.V.,
redaktor; YUDOLAGINA, S.D., tekhnicheskiy redaktor

[A collection of practical studies in radio chemistry] Shornik
prakticheskikh rabot po radiokhimii. [Leningrad] 1956. 210 p.

(MIRA 10:1)

1. Leningrad. Universitet.
(Radiochemistry)





5(4) AUTHORS:

Murin, A. N., Lur'ye, B. G.

SOV/76-32-11-18/32

TITLE:

On the Diffusion of the Silver Ions in the Mixed Crystals
AgBr + CdBr₂ (O diffuzii ionov serebra v smeshannykh kristal-

lakh AgBr + CdBr₂)

PERIODICAL:

Zhurnal fizicheskoy khimii, 1958, Vol 32, Nr 11, pp 2575-2579

(USSR)

ABSTRACT:

The dependence of the electric conductivity of the mixed crystals $AgBr + CdBr_2$ on the composition is rather complex. It is assumed that the Cd^{2+} ions in the crystal lattice AgBr take the positions of the Ag ions, but that at the same time an equivalent number of lattice positions Ag_n are formed which secure an electric neutrality of the mixed crystal. The migration processes of the interstitial ions can take place in the form of direct (from one position to the other) or "relay" transitions. In pure AgBr the value $\alpha \approx (0.5-0.6)$ was obtained (Refs 3,4 and 10), which corresponds to two thirds "relay"

(Refs 3,4 and 10), which corresponds to two thirds relationships and one third direct transfers. To determine the coefficients of the autodiffusion of silver ions in AgBr in the case of

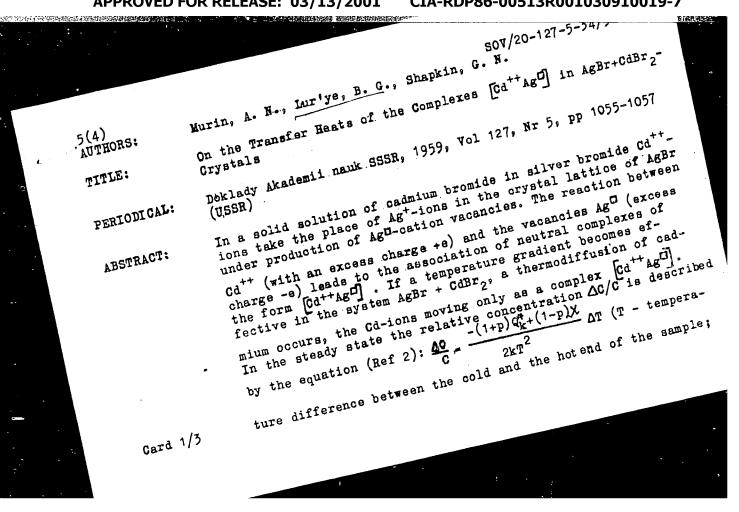
Card 1/3

SOV/76-32-11-18/32 On the Diffusion of the Silver Ions in the Mixed Crystals AgBr + CdBr

> different amounts of the CdBr, additions (0-6 mol%) the method of sectioning was employed in the present case. The authors used AgJ activated with ${\rm Ag}^{110}$ in a furnace (Fig 1) at 225°. A minimum observed on the diffusion isotherm is explained by a quasichemical reaction, the "salting out", corresponding to the equation $Ag_0^+ Ag^0 \rightleftharpoons Ag^+$ (in the lattice). The further increase of the diffusion coefficient with the Cd concentration is explained by an increase of the empty lattice sites in the cationic part of the AgBr lattice. The ratio between the diffusion coefficients calculated from data by Teltow (Tel'tov) according to the Einstein equation (Eynshteyn) and the experimentally obtained values remains constant ($\alpha = 0.67$) (Table). The obtained results tend to show the absence of movable "complex compounds" of the Cd2+Agq type. L. M. Belov, Diploma Candidate, took part in the investigations. There are 1 figure, 1 table, and 14 references, 4 of which are Soviet.

ASSOCIATION: Gosudarstvennyy universitet im. A. A. Zhdanova, Leningrad (State University imeni A. A. Zhdanov, Leningrad)

Card 2/3



SOV/20-127-5-34/58
On the Transfer Heats of the Complexes [Cd++AgC] in AgBr+CdBr2-Crystals

 Q_k^{H} - transfer heat of the complex $\left[\text{Cd}^{++}\text{Ag}^{\text{G}}\right]$, % = association heat of the complex according to reference 3 0.16 ev). $\triangle C/C$ was measured. A finely dispersed mixture of AgBr and CdBr2, marked by Cd , was pressed into tablets under a pressure of 4000 at. The said tablets were homogenized by annealing, and were then heated in a furnace with constant temperature gradient for 315 hours, batches of 5 tablets being separated by mica plates; the temperature difference between the hot and the cold end of the furnace amounted to 100° (210-310°), so that a temperature difference of 20° corresponded to each tablet. Figure 1 shows the linear dependence of $\lg C/C_0$ on 1/T (Co - concentration of cadmium before the experiment). In the case of the mentioned duration of the experiment, only the tablet at the hot end attained the equilibrium concentration, although the diffusion coefficient calculated by other authors (Ref 7) made it appear probable that equilibrium concentration would be attained by all 5 tablets. An experimental determination of the diffusion coefficient proved, however, that the data of reference 7 are too high by one order of magnitude,

Card 2/3

On the Transfer Heats of the Complexes Cd+Ag in AgBr+CdBr2-Crystals

and that the duration of the experiment astually sufficed only for the temperature interval of 310-290° in order to attain equilibrium concentration. Q_k^{π} was calculated as amounting to -0.54 ev. There are 1 figure and 9 references, 1 of which is

ASSOCIATION:

Leningradskiy gosudarstvennyy universitet im. A. A. Zhdanova (Leningrad State University imeni A. A. Zhdanov)

PRESENTED:

April 16, 1959 by A. F. Icffe, Academician

SUBMITTED:

April 13, 1959

Card 3/3

CIA-RDP86-00513R001030910019-7" APPROVED FOR RELEASE: 03/13/2001

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030910019-7

LURYE, B. G., LEBEDEV, N. A., MURIN, A. N.

"The Dependence of Self-Diffusion Coefficients of 100 Ag On the Pressure in Silver Bromide."

report submitted for 4th Intl. Symposium on the Reactivity of Solids, Amsterdam, 30 May 4 June 1960.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030910019-7"

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5/181/60/002/01/19/035
                                                                                                                                                                                                                                                                                                                                                      B008/B014
                                                                                                                Banasevich, S. N., Lur'ye, B. G., Murin, A. N.
                                                                                                                    Determination of the Effective Charge of Ca Ions in Mixed
_ .*~ : ~ ?
                                24.7700
                                      PERIODICAL; Fizika tverdogo tela, 1960, Vol. 2, No. 1, Pp. 80-87
                                           TEXT: The authors determined the diffusion coefficient of Ca ions and 45. their mobility in a constant electric field by means of radioactive Ca their mobility in a constant electric field by mere annealed after their plane-parallel plates of monocrystalline NaCl were annealed.
                              AUTHORS:
                                               their mobility in a constant electric field by means of radioactive Ga their mobility in a constant electric field by means of radioactive Ga their mobility in a constant electric field by means of radioactive Ga their mobility in a constant electric field by means of radioactive Ga their mobility in a constant electric field by means of radioactive Ga their mobility in a constant electric field by means of radioactive Ga their mobility in a constant electric field by means of radioactive Ga their mobility in a constant electric field by means of radioactive Ga their mobility in a constant electric field by means of radioactive Ga their mobility in a constant electric field by means of radioactive Ga their mobility in a constant electric field by means of radioactive Ga their mobility in a constant electric field by means of radioactive Ga their mobility in a constant electric field by means of radioactive Ga their mobility in a constant electric field by means of radioactive Ga their mobility in a constant electric field by means of radioactive Ga their mobility in a constant electric field by means of radioactive Ga their mobility in a constant electric field by means of radioactive Ga their mobility in a constant electric field by means of radioactive Ga their mobility in a constant electric field by means of radioactive field by m
                                  TITLE:
                                                   The Piene-parallel places of monorly was used for which Ca foils were sprayed on them. A special quartz tube was used for which Ca hoth in vacuum and inert gas. The diffusion coefficient was
                                                     which Ca foils were sprayed on them. A special quartz tube was used miner to both in vacuum and inert gas. The diffusion profiles obtained independent of the medium. One of the diffusion profiles
                                                       annealing both in vacuum and inert gas. The diffusion coefficient independent of the medium. One of the diffusion profiles obtained
                                                           Independent of the medical of the Calculated diffusion coefficients of the Calculated in Table 1 and represented in Fig. 2 along with data by
                                                               The calculated diffusion coefficients of the C++ ions in NaCl cryst with data by are listed in Table 1 and represented in Fig. 2 along with data by are listed in Table 1 and represented were made. When calculating the M. Chemla. About twenty experiments were made.
                                                                are listed in Table 1 and represented in Fig. 2 along with data by When calculating the W. Chemla. About twenty experiments were made. only data for 650 and the authors utilized only data for 650 and
                                                                   m. Unemla. About twenty experiments were made. When calculating the 700°C and 700°C the authors utilized only data for 650 and 700°C the authors utilized only data for 650 and 700°C and 
                                                                          Card 1/3
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Determination of the Effective Charge of Ca Ions in Mixed Crystals of NaCl and CaCl₂ S/181/60/002/01/19/035 B008/B014

where the conductance of crystals is considerable. In some experiments the crystals changed their color, and dendrites were sometimes observed. The profile of diffusion was strongly deformed in experiments in which a higher tension was applied than usual. A high maximum and one to two maxima differently shifted to the cathode were found at the interface. Table 2 furnishes data of experiments in which the said phenomena could not be observed. In all experiments the following observations were made when an electric field was applied: After separation of the crystals hills and valleys were symmetrically visible on the opposed faces which reproduced exactly the shape of the applied active point. Thus, depending on experimental conditions, the interface between the central and anode crystal shifted at a distance of up to 200 μ where the active layer had been applied. A broken line on Fig. 1b represents the shift observed. After the experiments the anode crystals lost more weight than the cathode crystals. When a nitrogen current passed through the crystals, a fine powder of NaCl deposited on the graphite cathode. The weight of this powder corresponded to the weight loss of the cathode

Card 2/3

Determination of the Effective Charge of Ca Ions in Mixed Crystals of NaCl and CaCl2

S/181/60/002/01/19/035 B008/B014

crystal. Possibly, a reaction took place at high temperatures between the metallic sodium deposited from the cathode and the gaseous chlorine evolving from the anode. The impurity ion and twelve of its immediate neighbors in the NaCl lattice are schematically shown in Fig. 3. The Candidate G. I. Shestakova assisted in the experiments. B. Boltaks and I. Sozinov are also mentioned. There are 3 figures, 2 tables, and 10 references, 1 of which is Soviet.

ASSOCIATION: Leningradskiy gosudarstvennyy universitet (Leningrad State University)

SUBMITTED: April 15, 1959

Card 3/3

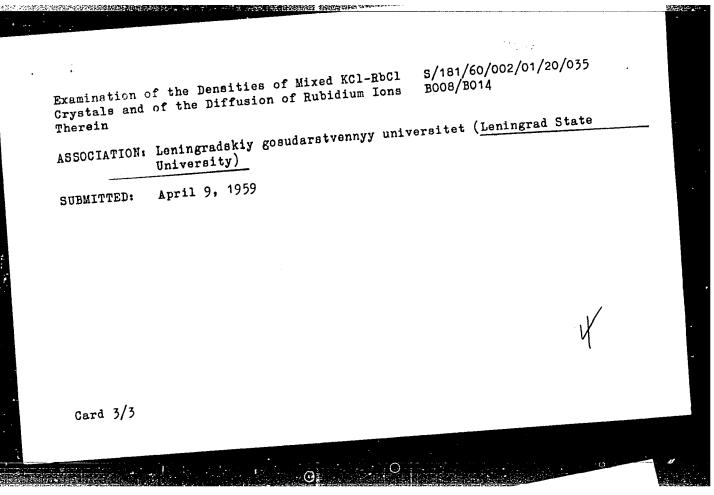
s/181/60/002/01/20/035 B008/B014 Makarov, L. L., Lur'ye, B. G., Malyshev, V. N. Examination of the Densities of Mixed KCl Abcl Crystals 24.7500 and of the Diffusion of Rubidium Ions Therein PERIODICAL: Fizika tverdogo tela, 1960, Vol. 2, No. 1, pp. 88-92 AUTHORS: TEXT: The authors examined the densities of mixed KCl-RbCl crystals at TEXT: The authors examined the densities of mixed KUI-RDUI Crystais at 25°C and determined their concentration of vacancies according to Shottki TITLE: (Table 1). Fig. 1 represents the dependence of the degree of occupation to be compared to the (Table 1). Fig. 1 represents the dependence of the degree of occupation of the elementary lattice n upon the composition. The difference between the results obtained by the authors and M a Twanking (Ref 7) is probable the results obtained by the authors and M a Twanking (Ref 7) is probable. or the elementary lattice in upon the composition. The difference between the results obtained by the authors and M. S. Ivankina (Ref. 7) is probabther results obtained by the authors and the samples. The configuration of the samples of the samples of the samples of the samples. the results obtained by the authors and M. S. Ivankina (Ref. []) is proly due to the different preparation of the samples. The configuration by due to the different preparation of the development of mixed Kri-phri Ly due to the different preparation of the samples. The configuration component of the entropy change in the development of (mahla 2) man conversals was calculated with regard to the vaccases (mahla 2) component of the entropy change in the development of mixed KCl-RbCl (Table 2). The recreated was calculated with regard to the vacancies (Table 2). The recreated was calculated with regard to the vacancies (Table 2). crystals was calculated with regard to the vacancies (Table 2). The results obtained are in agreement with experimental data. Next, the authors sults obtained are in agreement with experimental data. The rediction of the redict sults obtained are in agreement with experimental data. Next, the author studied the diffusion of Rb+ ions at 670°C by means of the radioisotope studied the alliusion of horizon measurement are given in Table 3. An analogy $\rm R^{86}$, The results of diffusion measurement are Card 1/3

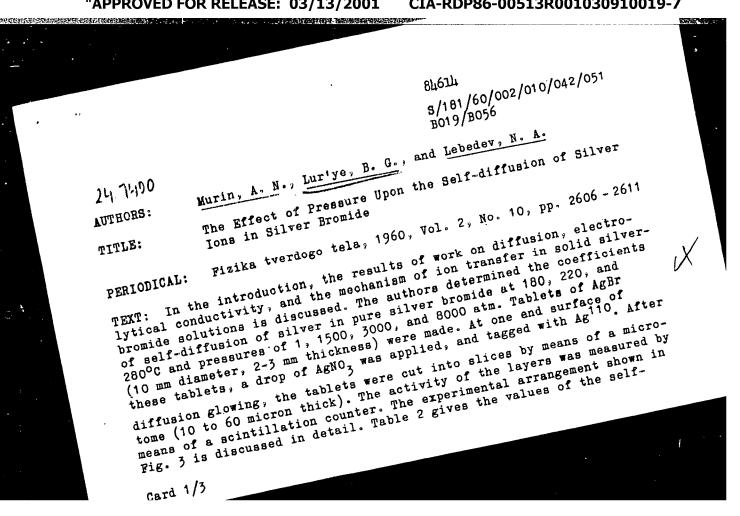
Examination of the Densities of Mixed KCl-RbCl S/181/60/002/01/20/035 Crystals and of the Diffusion of Rubidium Ions B008/B014

was found between the melting-point curves, the "outflow", the diffusion coefficients D, and the defectiveness of the mixed crystals. The temperature dependence of the diffusion coefficients was studied on three samples (KCl, RbCl, and an equimolecular mixed crystal) (cf. Table 4). The results obtained are represented as a function log D = f(\frac{1}{T}) in Fig. 3. The three obtained are represented as a function log D = f(\frac{1}{T}) in Fig. 3. The three obtained are represented as a function log D = f(\frac{1}{T}) in Fig. 3. The three obtained are represented as a function log D = f(\frac{1}{T}) in Fig. 3. The three obtained are represented as a function log D = f(\frac{1}{T}) in Fig. 3. The three obtained are represented as a function log D = f(\frac{1}{T}) in Fig. 3. The three obtained are represented as a function log D = f(\frac{1}{T}) in Fig. 3. The three obtained are represented as a function log D = f(\frac{1}{T}) in Fig. 3. The three consideration in Fig. 3. The three seminations are shown that it is to require the diffusion process in the preparations under consideration requires the same activation energy. Calculations have shown that it it is required by the fact that amounts to \$5000 \dots 300 cal/mole. This may be explained by the fact that amounts to \$5000 \dots 300 cal/mole. This may be explained by the fact that amounts to \$5000 \dots 5000 \dots 5000 \dots 5000 \dots 6000 \dots

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s/181/60/002/010/042/051 The Effect of Pressure Upon the Selfdiffusion of Silver Ions in Silver Bromide B019/B056

diffusion coefficients of the tagged Agt-ions in AgBr, as measured by

diffusion c	oefficients	,	3000	5500	8000	l
the authors	1 .	1500		2.25+0.05	1.25+0.03	
tur Loca	8.3+0.6	4.0+0.2	0.42+0.02	0.285±0.01	0.165+0.01	
220		0.1170.01	1 - 40.0 OD5	0.0012	, and it is	ב
180 1				\hically	g Hill -	

Fig. 4 represents the function LogD = F(1/T) graphically, and it is shown that between the measured values and the values calculated by means of the diffusion formula of Einstein there is a difference. This difference decreases with increasing pressure and decreasing temperature. Finally, an estimate of the correlation factor for the internodal diffusion mechanism is made. Table 3 gives the values of the correlation factor fo of the internodal diffusion at 280, 220, and 180°C for pressures of 1, 1500, 3000, 5500, and 8000 kg/cm². With increasing temperasures of 1, 1500, with increasing pressure fo first decreases, after ture fo decreases, with increasing pressure for the correlation of the correlation factor of the correlation of the correlation of the correlation factor of the correlation o

Card 2/3

The Effect of Pressure Upon the Selfdiffusion of Silver Ions in Silver Bromide S/181/60/002/010/042/051 B019/B056

which it again increases; an especially large increase may be observed at 180°C. The fo-values are accurate up to 5-15%. There are 4 figures, 3 tables, and 15 references: 4 Soviet, 5 US, 3 British, and 2 German.

ASSOCIATION: Leningradskiy gosudarstvennyy universitet (Leningrad State University)

SUBMITTED: March 3, 1960

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Card 3/3

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s/181/61/003/002/012/050

9,4300 (and 1043, 1155)

Murin, A. N., Lur'ye, B. G., Banasevich, S. N., Samosyuk, G. P., Ignatovich, Ya. L.

TITLE:

AUTHORS:

Diffusion and electrolytic migration of p^{32} in KCl-crystals

irradiated by 660-Mev protons

PERIODICAL:

Fizika tverdogo tela, v. 3, no. 2, 1961, 398-407

TEXT: One of the many possibilities of introducing impurity atoms into a crystal lattice consists in irradiating the latter with neutrons or protons in such a manner that nuclear transformations may occur. Thus, the introduction of P³² into alkali chlorides with neutron irradiation is possible as a result of the reaction ${\rm Cl}^{35}(n,\alpha){\rm P}^{32}$ (Ref. 1), in the case of proton irradiation of KCl as a result of the reactions $\text{Cl}_{17}(p; 3p, xn)P_{15}^{32}$ and $\text{K}_{19}(p; 5p, xn)P_{15}^{32}$. The authors investigated diffusion and migration of the P formed by proton irradiation of KCl, and gave a detailed report on the results obtained. The KCl-single

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s/181/61/003/002/012/050 B102/B204

Diffusion and electrolytic ...

crystals used were first heated in an N_2 -atmosphere at 700°C for several hours, after which they were slowly cooled to room temperature. Irradiation with 660-Mev protons was carried out on the synchrocyclotron of the Ob"yedinennyy institut yadernykh issledovaniy (Joint Institute of Nuclear Research); the crystals had a size of 1.5 x 1.5 x 0.2 cm and were irradiated perpendicular to the quadratic surface. In view of the fact that with such an irradiation, also Be 7 (53.6 d), Na 24 (15.0 h), P 32 (14.5 d), S 35 (87 d), and Ar 37 (32 d) may be formed apart from short-lived isotopes, special investigations were carried out for the purpose of determining their relative intensities. These investigations are described in the introduction; they led to the result that one week after the end of irradiation, 99% of the activity measured by means of an end-window counter must be ascribed to P32. The specimens irradiated were heated in quartz tubes, through which pure N₂ streamed, by means of an electric furnace, and the diffusion was investigated. The conditions of heat treatment varied between 2 hours at 736°C up to 190 hours at 650°C. For the purpose of

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S/181/61/003/002/012/050 B102/B204

Diffusion and electrolytic ...

card 3/9

s/181/61/003/002/012/050 B102/B204

Diffusion and electrolytic ...

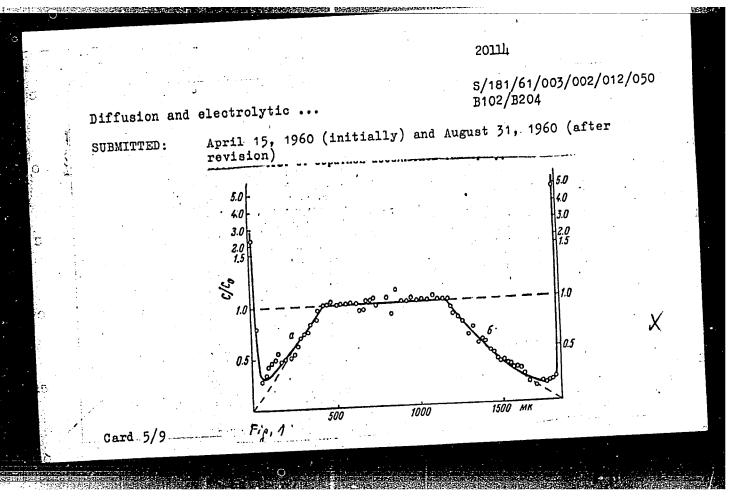
active. Migration may be distinctly seen from Figs. 4 and 5. At 4 different field strengths, 4 series of experiments were carried out. The numerical results of these experiments are given in the table. The charge q of the phosphor ions was calculated according to the Einstein relation $\mu/D=q/kT$. The results obtained by the investigations are finally theoretically dealt with and discussed in detail. The results obtained indicate that phosphorus in potassium chloride together with chlorine ions form negative complex ions $(PCl_6)^{-1}$. The phosphor then enters the complex in the form $(P^{+5}4K_0^+6C1^{-1})^{-1}$, where K_C^{\dagger} is a K^{\dagger} vacancy. The authors finally thank Professor V. P. Dzhelepov, Director of the Laboratoriya yadernykh problem OIYaI (Laboratory for Nuclear Problems of the OIYaI), for his interest. There are 7 figures, 1 table, and 11 references: 4 Soviet-bloc and 7 non-Soviet-bloc.

ASSOCIATION:

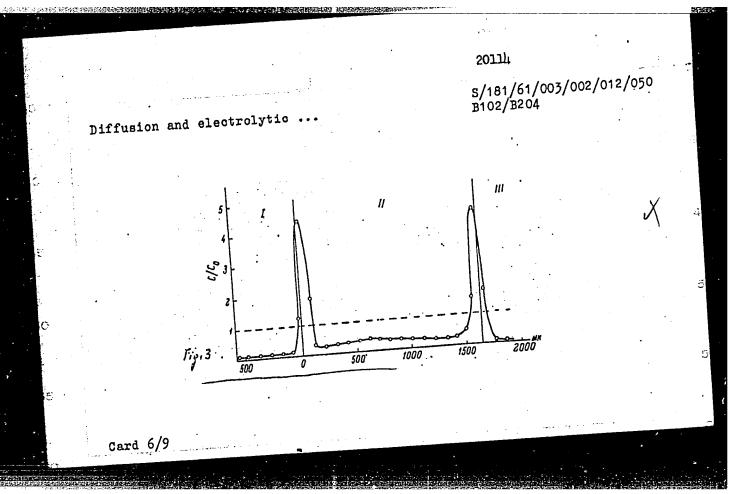
Leningradskiy gosudarstvennyy universitet (Leningrad

State University)

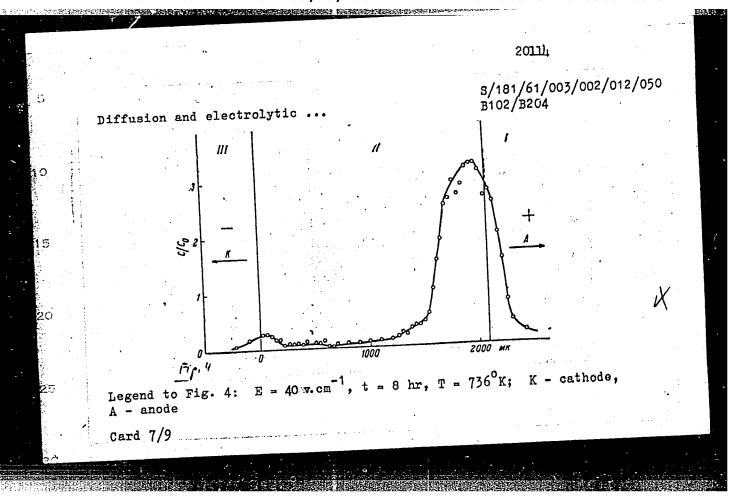
Card 4/9



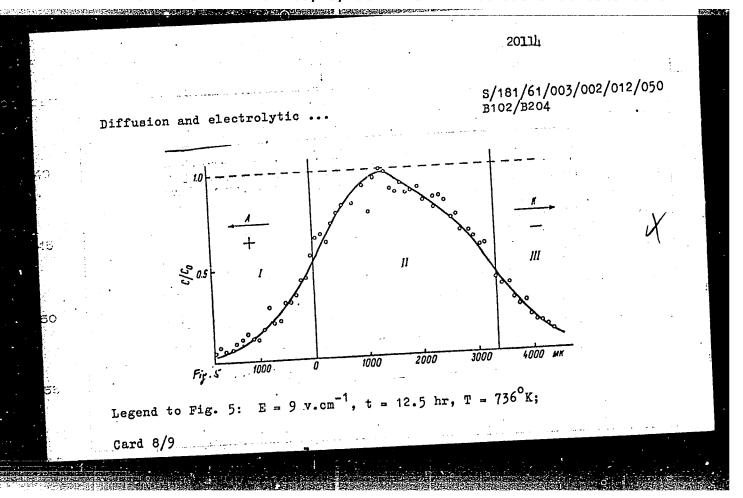
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20114 S/181/61/003/002/012/050 B102/B204

Diffusion and electrolytic ...

Немер Время отянга, час. Е, в - см ⁻¹ A ₁ Р. в ⁻¹	q = Ze, B saps dax saex t poss	q _{cp} , ± ^{Aq} op,
1 8.0 10 4.32 2.62 1 10.3 5.6 1.78 2.12 3 8.0 51 8.20 1.22 4 8.0 40 23.6 2.84	0.232 0.186 0.107 0.240	$\left.\begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$

Legend to the table: 1) Number of experiments. 2) Duration of heating in hours. 3) E in v.cm⁻¹. 4) Ratio of total activities accumulated after heat treatment on the anode- and cathode side of the irradiated crystal. 5) μ/D in v⁻¹, μ is the mobility of the phosphorus ions. 6) q = Ze, in electron charges. 7) $q_{mean}^{+} \triangle q_{mean}^{-}$

card 9/9

s/:81/61/003/011/007/056 B102/B138

AUTHORS:

Murin, A. N., Lur'ye, B. G., and Tarlakov, Yu. P.

TITLE:

Electrical conductivity and self-diffusion of silver in

silver iodide at high pressures

PERIODICAL: Fizika tverdogo tela, v. 3, no. 11, 1961, 3299-3305

TEXT: Aglis distinguished by an abnormally high conductivity and by the existence of several modifications. It has already been investigated many times, among others, by the authors together with N. A. Lebedev (FTT, $\underline{2}$, 2607, 1960). The present paper reports on investigations of the pressure and temperature dependences of electrical conductivity and Ag self-diffusion coefficients at pressures up to 6000 kg/cm^2 . The AgI was produced from chemically pure elements, ground and pressed at 5000 kg/cm² to tablets. They had a density of $5.5 - 5.6 \text{ g/cm}^3$ (monocrystalline density: 5.67 g/cm3). Electrical conductivity was measured in a pressure

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s/181/61/003/011/007/056 B102/B138

Electrical conductivitiy and self-...

cell. For diffusion investigation ${\rm Ag}^{\rm M}\,{\rm NO}_3$ solution on to a silver plate which was then exposed to iodine vapor so that an Ag-tagged Ag* I surface film was formed. This silver plate was then brought together with an AgI tablet, and diffusion took place at a certain temperature and a certain pressure. Then the silver plate was dissolved in HNO $_3$ and 15 to 30 μ thick layers were cut from the tablets. Their activity was measured with a gamma scintillation counter. The data were used to plot diagrams: logarithm of specific activity as functions of the square distance. The self-diffusion coefficient was determined from the gradient of the straight lines. The Bridgman phase diagram (Proc. Amer. Acad., 51, 57, 1915) is discussed in detail. The results of the measurements are presented in Fig. 4. In all cases (all phases, temperatures and pressures) the measured values of the self-diffusion coefficients are much higher than the calculated ones. This might be explained by assuming a circular diffusion for the α modification and in states similar to it. For the other modifications instability of the lattice could be responsible for the high experimental values. There are 4 figures, 1 table, and 21 references: 4 Soviet and 17 non-Soviet. The Card 2/4

3/181/61/003/011/007/056 B102/B138

Electrical conductivity and self-...

three most recent references to English-language publications read as follows: A. I. Mayimdar a. R. Roy. J. Phys. Chem. 63, 1853, 1959; K. Zimen et al. J. Chem. Soc., Supl. 2, 392, 1949; S. W. Kurcnick. J. Chem. Phys., 20, 218, 1952.

ASSOCIATION: Leningradskiy gosudarstvennyy universitet im. A. A. Zhdanova

(Leningrad State University imeni A. A. Zhdanov)

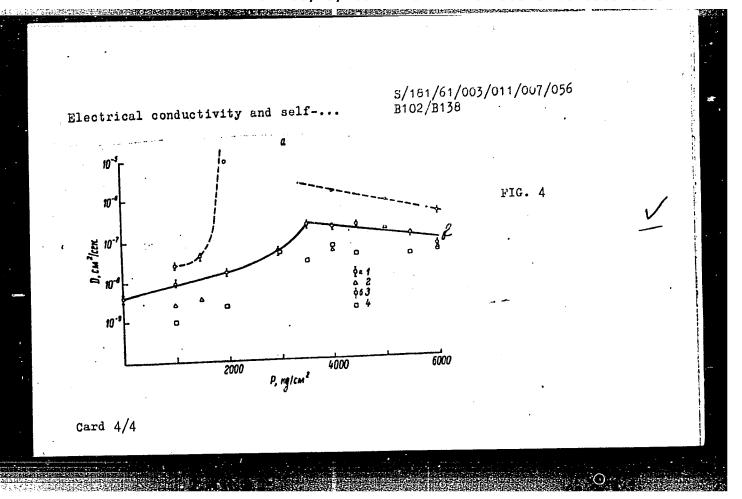
May 9, 1961 SUBMITTED:

Fig. 4. Ag self-diffusion coefficient as a function of pressure at 90

and 110°C.

Legend: (a) measured, (b) calculated. (1) D_m at $110^{\circ}C$; (2) D_c at $110^{\circ}C$; (3) D_m at $90^{\circ}C$; (4) D_c° at $90^{\circ}C$.

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APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030910019-7"

S/181/62/004/007/027/037 B178/B104

AUTHORS:

Lur'ye, B. G., Murin, A. N., and Brugevich, R. F.

TITLE:

Diffusion and electrolytic migration of manganese ions in

a mixture of NaCl and MnCl, crystals

PERIODICAL: Fizika tverdogo tela, v. 4, no. 7, 1962, 1957-1958

TEXT: The diffusion of Mn ions in a mixture of NaCl and MnCl₂ crystals and in pure NaCl was investigated. The mixed crystals, which contained about 0.02 mole% Mn, were grown by the method of Kiropulos. Radioactive $\rm Mn^{54}$ dissolved in alcohol was applied to a crystal plate. After subjecting specimen to diffusion annealing the gamma activity of microtom sections was determined with a 4π scintillation counter (E = 0.89 MeV). The activation energy of an M⁺⁺ ion on transition into the associated vacancy is 0.71 eV, the frequency of natural oscillations of Mn⁺⁺ is 6.3·10¹¹ sec⁻¹, the association enthalpy of the complex is 0.7 eV, and the association entropy, $-\Delta S_a$, is 1.9·10⁻⁴/deg. The free energy of association Card 1/2

S/161/62/004/007/027/037 B178/B104

Diffusion and electrolytic ...

is given by $\Delta G_a = (0.7-1.9)\cdot 10^{-4} T$. Allowing for the mobility of Mn⁺⁺ ions in the electric field, the effective ion charge at 500, 600, and $700^{\circ}C$ is estimated at $(5-9)\cdot 10^{-2}e$, where $e=4.8\cdot 10^{-4}$ CGSE. The lifetime of the complex Mn⁺⁺Na⁺ is $9\cdot 10^{-6}$ sec, and the period between the reorientations of the complex is $8\cdot 10^{-7}$ sec. There are 1 figure and 1 table.

ASSOCIATION: Leningradskiy gosudarstvennyy universitet (Leningrad State

University)

SUBMITTED: March 6, 1962

Card 2/2

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030910019-7

SOURCE CODE: UR/0181/66/008/011/3291/3294 ACC NR. AP6036974

AUTHOR: Murin, A. N.; Lur'ye, B. G.; Seregin, P. P.; Cherezov, N. K.

ORG: Leningrad State University im. A. A. Zhdanov (Leningradskiy gosudarstvennyy universitet)

TITLE: Study of the state of iron in single crystals of AgCl by the Mossbauer method

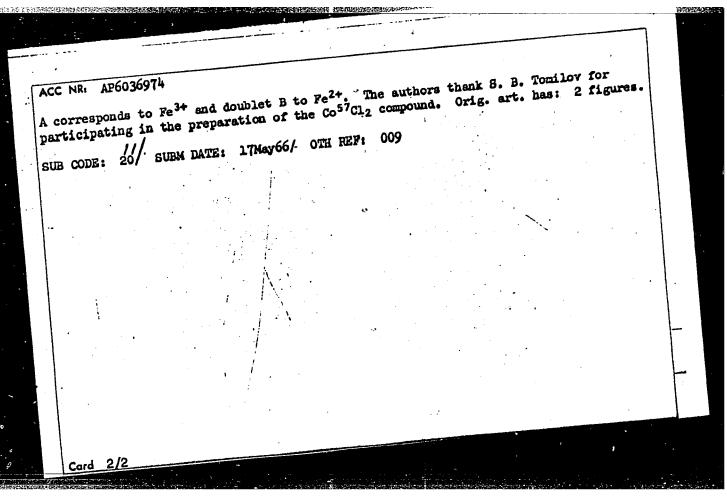
SOURCE: Fizika tverdogo tela, v. 8, no. 11, 1966, 3291-3294

TOPIC TAGS: iron, silver chloride, Mossbauer spectrum, emission spectrum, crystal

ABSTRACT: The sources used for the investigation were prepared by diffusing Co⁵⁷ in single crystals of AgCl grown by the Stockbarger method and specially treated. The Mossbauer spectrum was measured with apparatus with constant velocity and with electrodynamic vibrator. The absorber was stainless-steel foil (8 mg/cm²) and the detectrodynamic vibrator. tor a proportional counter. The Mossbauer emission spectrum of Fe^{57m}, localized in single crystal AgCl, was found to consist of two doublets, A) with splitting 0.30 mm/ sec and B) with splitting 0.20 mm/sec. Comparison of the spectrum at two temperatures (293 and 77K) and after different annealing and cooling conditions leads to the conclusion that the iron is present in the form of Fe²⁺ and Fe³⁺ ions, situated apparently in the lattice points and constituting part of complexes with vacancies. Doublet

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